

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/010868

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B01D35/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01D F16K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 607 582 A (YAMAZAKI KAZUHIKO ET AL) 4 March 1997 (1997-03-04) column 1, line 6 - line 10 column 6, line 40 - column 7, line 9 figures	1-10
X	US 6 579 455 B1 (MUZIK TOM ET AL) 17 June 2003 (2003-06-17) column 8, line 11 - line 33 figures 1,9-12	1-10
A	US 2 354 238 A (WILKINSON JAMES W) 25 July 1944 (1944-07-25) figure 2	1
A	EP 0 492 627 A (KANEBO LTD) 1 July 1992 (1992-07-01) figures 4,5	1,5,6
	-/-	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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- *A* document defining the general state of the art which is not considered to be of particular relevance
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- * & * document member of the same patent family

Date of the actual completion of the international search

1 December 2004

Date of mailing of the international search report

08/12/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 199 17 031 C (HYDAC FILTERTECHNIK GMBH) 4 May 2000 (2000-05-04) the whole document -----	1

INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No

PCT/EP2004/010868

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5607582	A	04-03-1997	JP 3320176 B2 JP 7155513 A	03-09-2002 20-06-1995
US 6579455	B1	17-06-2003	AU 770603 B2 AU 7357000 A BR 0014174 A CA 2384497 A1 EP 1218081 A1 JP 2003508208 T TW 505533 B WO 0117654 A1	26-02-2004 10-04-2001 30-07-2002 15-03-2001 03-07-2002 04-03-2003 11-10-2002 15-03-2001
US 2354238	A	25-07-1944	NONE	
EP 0492627	A	01-07-1992	JP 4225806 A DE 69120045 D1 DE 69120045 T2 EP 0492627 A2 KR 9707645 B1 US 5256285 A	14-08-1992 11-07-1996 06-02-1997 01-07-1992 15-05-1997 26-10-1993
DE 19917031	C	04-05-2000	DE 19917031 C1 AT 246952 T DE 50003268 D1 WO 0062898 A1 EP 1169105 A1 ES 2204505 T3	04-05-2000 15-08-2003 18-09-2003 26-10-2000 09-01-2002 01-05-2004